## IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process for preparing an ester F of a polyalcohol A with at least one  $\alpha$ ,  $\beta$ -ethylenically unsaturated carboxylic acid B, comprising the steps of

- a) reacting a polyalcohol A with at least one  $\alpha\beta$ -ethylenically unsaturated carboxylic acid B in the presence of at least one esterification catalyst C and at least one polymerization inhibitor D, and also, if appropriate, a solvent E which forms an azeotrope with water, to form an ester F,
- b) if appropriate, removing at least a portion of the water formed in a) from the reaction mixture, b) being effected during and/or after a) or after step a),
  - f) if appropriate, neutralizing the reaction mixture,
- h) if a solvent E has been used, removing the solvent if appropriate by distillation, and/or
- i) stripping with a gas inert under the reaction conditions <u>or both steps h) and i)</u>, which comprises using, as the polymerization inhibitor D, at least one 6-chromanol derivative of the formula (III)

where

 $R^5$ ,  $R^6$ ,  $R^7$ ,  $R^8$ ,  $R^9$ ,  $R^{10}$ ,  $R^{11}$ ,  $R^{12}$ ,  $R^{13}$  and  $R^{14}$  are each independently hydrogen,  $C_1$ - $C_4$ -alkyl, and

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 $R^5$  is additionally  $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_4$ -alkyloxycarbonyl,  $C_6$ - $C_{12}$ -aryloxycarbonyl,  $C_6$ - $C_{12}$ -aryloxycarbonyl,

and R<sup>13</sup> is additionally chlorine.

Claim 2 (Currently Amended): A process for preparing a crosslinked hydrogel, comprising the steps of

- q) reacting a polyalcohol A with at least one  $\alpha$ ,  $\beta$ -ethylenically unsaturated carboxylic acid B in the presence of at least one esterification catalyst C and at least one polymerization inhibitor D, and also, if appropriate, a solvent E which forms an azeotrope with water, to form an ester F,
- b) if appropriate, removing at least a portion of the water formed in a) from the reaction mixture, b) being effected during and/or after a) or after step a),
  - f) if appropriate, neutralizing the reaction mixture,
- h) if a solvent E has been used, removing the solvent if appropriate by distillation, and/or
  - i) stripping with a gas inert under the reaction conditions or both steps h) and i),
- k) polymerizing the reaction mixture from one of stages a) to i), if passed through, with, if appropriate, additional monoethylenically unsaturated compounds N, and also, if appropriate, at least one further copolymerizable hydrophilic monomer M in the presence of at least one free-radical initiator K and, if appropriate, at least one graft base L,
  - 1) if appropriate, postcrosslinking the reaction mixture obtained from k),
  - m) drying the reaction mixture obtained from k) or l) and
- n) if appropriate, grinding and/or sieving the reaction mixture obtained from k),

  l) or m) or grinding or sieving said reaction mixture,

  which comprises using, as the polymerization inhibitor D, at least one 6-chromanol derivative

  of the formula (III).

as defined in claim 1.

Claim 3 (Currently Amended): The process according to claim 1-or-2, wherein  $R^5$  and  $R^9$  to  $R^{12}$  in formula (III) are each hydrogen,  $R^6$ ,  $R^7$  and  $R^8$  are each independently hydrogen or methyl, and  $R^{13}$  and  $R^{14}$  are each methyl.

Claim 4 (Currently Amended): The process according to claim 1-or 2, wherein at least one 6-chromanol derivative is selected from the group consisting of 2,2,5,7,8-pentamethyl-6-chromanol, 2,2,5,7-tetramethyl-6-chromanol, 2,2,5,8-tetramethyl-6-chromanol, 2,2,7,8-tetramethyl-6-chromanol, 2,2,5-trimethyl-6-chromanol, 2,2,7-trimethyl-6-chromanol and 2,2,8-trimethyl-6-chromanol.

Claim 5 (Currently Amended): The process according to any of the preceding claims claim 1, wherein at least one of reaction steps a) and b) is carried out in the presence of an oxygenous gas.

Claim 6 (Currently Amended): The process according to any of the preceding claims claim 1, wherein the polyalcohol A is selected from the group consisting of trimethylolbutane, trimethylolpropane, trimethylolethane, neopentyl glycol, neopentyl hydroxypivalate, pentaerythritol, glycerol, 1,2-ethylene glycol, 1,2-propylene glycol, 2-ethyl-1,3-propanediol, 2-methyl-1,3-propanediol, hydroquinone, bisphenol A, bisphenol F,

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bisphenol B, 2,2-bis(4-hydroxycyclohexyl)propane, 1,1-, 1,2-, 1,3- and 1,4-cyclohexane-dimethanol, 1,2-, 1,3- or 1,4-cyclohexanediol, but-2-ene-1,4-diol and but-2-yne-1,4-diol, each of which may optionally be alkoxylated.

Claim 7 (Currently Amended): The process according to any of the preceding claims claim 1, wherein, instead of a carboxylic acid B, a C<sub>1</sub>-C<sub>4</sub>-alkyl ester of a carboxylic acid B is used and, instead of an esterification catalyst C, a transesterification catalyst.

Claim 8 (Currently Amended): A crosslinked hydrogel obtainable prepared by the process according to any of claims 2 to 6 claim 2.

Claim 9 (Currently Amended): A crosslinked hydrogel comprising at least one hydrophilic monomer M in copolymerized form, crosslinked with a reaction mixture comprising an ester F, as obtainable prepared by the process according to any of claims 1 to 6 claim 1.

Claim 10 (Currently Amended): The crosslinked hydrogel according to claim 8-or 9, comprising at least one 6-chromanol derivative of the formula (III).

as defined in claim 1.

Claim 11 (Currently Amended): The use of A method of using the crosslinked hydrogel according to any of claims 8 to 10 claim 8 in hygiene articles, packaging materials

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water-absorbent hydrogels.

Claim 12 (Currently Amended): The use of A method of using the reaction mixtures from the preparation of a (meth)acrylic ester of a polyalcohol or of a purified (meth)acrylic ester according to any of claims 1 to 6 claim 1, each of which comprise at least one 6-chromanol derivative of the formula (III) as defined in claim 1, as free-radical crosslinkers of

Claim 13 (Currently Amended): The use of A method of using the 6-chromanol derivatives of the formula (III) as defined in claim 1 as the stabilizer in the preparation of (meth)acrylic esters.

Claim 14 (Currently Amended): The <u>use-method</u> according to claim 12, wherein the (meth)acrylic esters are used as free-radical crosslinkers in hydrogels.

Claim 15 (Original): A substance mixture comprising at least one 6-chromanol derivative of the formula (III) as defined in claim 1 and at least one stabilizer selected from the group consisting of phenothiazine, hydroquinone, hydroquinone monomethyl ether and hypophosphorous acid.